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Dated: Apr 23, 2002

Signature: 
(Name of Signer)

Docket No.: 28967/34891A
(PATENT)

1644
#3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Alitalo, K, et al.

Application No.: 09/765,534

Group Art Unit: 1644

Filed: January 19, 2001

Examiner: TBD

For: Application of: Flt4(VEGFR-3) as a Target for
Tumor Imaging and Anti-Tumor Therapy

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INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
Washington, DC 20231

Dear Sir:

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached 1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Copies of the following documents have been enclosed: A27, A28, A29, C1, C13, C15, C24, C37, C38, C40, C47, C64, C66, C67, C68, C78, C83, C84, C91, C93, C94, C96, C97, C99, C108, C113, C114, C116, C124, C138, C145, C158, C163, C164, C167, C171, C185, C198, C201, C204, C207, C208, C214, C226, C237, C244 through C250. The remaining patent(s) or publications not supplied were previously cited by or submitted to the Office in prior application no. 09/169,079, filed October 9, 1998, and relied upon in this application for an earlier filing date under 35 U.S.C. 120.

Most of the items listed on form PTO/SB/08 are provided because they were cited in the specification of this application, in the file wrapper of this application, or in the parent application's case file.

This Information Disclosure Statement is not intended to be an admission that any particular document is "material" pursuant to 37 CFR 1.56, or is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references. In accordance with CFR 1.97(b)(3), no fee is enclosed as the first Office action on the merits has not been mailed.

Dated: April 22, 2002

Respectfully submitted,

By David Gass

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Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. 28967/34891A	Serial No. 09/765,534
				Applicant Alitalo, K. et al.	
				Filing Date January 19, 2001	Group 1644
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>				RECEIVED	
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U.S. PATENT DOCUMENTS							
*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
	A1	4,543,439	09/24/85	Fracketton, Jr. et al.	435	70.21	
	A2	4,652,639	03/24/87	Stabinsky	536	27	
	A3	4,933,294	06/12/90	Waterfield et al.	436	501	
	A4	5,183,884	02/02/93	Kraus et al.	536	23.5	
	A5	5,185,438	02/09/93	Lemischka	536	23.2	
	A6	5,198,359	03/30/93	Taniguchi et al.	435	252.3	
	A7	5,231,001	07/27/93	Kaplan et al.	435	7.21	
	A8	5,256,766	10/26/93	Coughlin	530	327	
	A9	5,270,458	12/14/93	Lemischka	536	23.5	
	A10	5,283,354	02/01/94	Lemischka	536	23.5	
	A11	5,367,057	11/22/94	Lemischka	530	350	
	A12	5,635,177	06/03/97	Bennett et al.	424	143.1	
	A13	5,643,759	07/01/97	Pfreundschuh, M.	435	70.21	
	A14	5,693,762	12/02/97	Queen, C.L. et al.	530	387.3	
	A15	5,700,822	12/23/97	Hirth, K.P. et al.	514	380	
	A16	5,712,395	01/27/98	App, H. et al.	544	344	
	A17	5,747,651	05/05/98	Lemischka, I.R.	530	387.9	
	A18	5,750,078	05/12/98	Shitara, K. et al.	424	133.1	
	A19	5,763,441	06/09/98	App, H. et al.	514	249	

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	A20	5,763,733	06/09/98	Whitlow, M. et al.	530	387.3	
	A21	5,776,427	07/07/98	Thorpe, P.E. et al.	424	1.49	
	A22	5,776,755	07/07/98	Alitalo, K. et al.	435	194	
	A23	5,798,097	08/25/98	McKenzie, I.F.C. et al.	424	181.1	
	A24	5,807,548	09/15/98	Shitara, K. et al.	424	133.1	
	A25	5,952,199	09/14/99	Davis-Smyth et al.	435	69.7	
	A26	6,011,003	01/04/00	Charnock-Jones et al.	514	2	
	A27	6,107,046	08/22/00	Alitalo, K. et al.	435	7.1	
	A28	6,130,071	10/10/00	Alitalo, K. et al.	435	69.4	
	A29	6,331,302	12/18/01	Bennett, et al.	424	146.1	

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*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
	B1	EP 0 325 224 A2	07/26/89	EPO				
	B2	WO 90/14425	11/29/90	WIPO				
	B3	WO 92/13867	08/20/92	WIPO				
	B4	WO 92/14748	03/09/92	WIPO				

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*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation
							Yes No
B5		WO 93/14124	07/22/93	WIPO			
B6		WO 93/15201	08/05/93	WIPO			
B7		WO 94/10202	05/11/94	WIPO			
B8		WO 95/24473	09/14/95	WIPO			
B9		WO 95/33772	12/14/95	WIPO			
B10		WO 96/39515	12/12/96	WIPO			
B11		WO 97/05250	02/13/97	WIPO			
B12		WO 97/09427	03/13/97	WIPO			
B13		WO 98/33917	08/06/98	WIPO			
B14		98/07832	26/02/98	WO	6		
B15		99/33485	08/07/99	WO	6		

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C1	Achen, M. G., et al., "Localization of Vascular Endothelial Growth Factor-D in Malignant Melanoma Suggests a Role in Tumour Angiogenesis," <i>J. Pathol.</i> 193(2): 147-54 (2001).	
C2	Achen, M.G. et al., "Monoclonal antibodies to vascular endothelial growth factor-D block its interactions with both VEGF receptor-2 and VEGF receptor-3," <i>Eur. J. Biochem.</i> , 267(9):2505-15 (May, 2000).	

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		Filing Date January 19, 2001	Group 1644

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C3	Achen, M.G. et al., "Vascular endothelial growth factor D (VEGF-F) is a ligand for the tyrosine kinases VEGF receptor 2 (Flk1) and VEGF receptor 3 (Flt4)," <i>Proc. Natl. Acad. Sci., USA</i> , 95(2):548-553 (January, 1998).
C4	Akagi, K., et al., "Vascular endothelial growth factor-C (VEGF-C) expression in colorectal cancer tissues," <i>Br. J. Cancer</i> , 83(7):887-91 (October, 2000).
C5	Andre, T., et al., "Vegf, Vegf-B, Vegf-C and their receptors KDR, FLT-1 and FL the neoplastic progression of human colonic mucosa," <i>Int. J. Cancer</i> , 86(2):174-81 (April 15, 2000).
C6	Andersson et al., "Structural and Functional Markers During Induced Differentiation in Human Leukemia Cell Lines," In R. F. Revoltella (ed.), <i>Expression of Differentiated Functions in Cancer Cells</i> . 239-245, Raven Press, New York (1982).
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C8	"Angiogenesis Inhibitors in Clinical Trials," <i>Cancer Trials</i> , at cancertrials.nci.nih.gov/news/angio/table.html (visited Jan. 24, 2001).
C9	"Angiogenesis Inhibitors in Clinical Trials," <i>Cancer Trials</i> , at cancertrials.nci.nih.gov/news/angio/table.html (visited Sep. 25, 2001).
C10	"Angiogenesis Inhibitors in Clinical Trials: Expanded Trial Information," <i>Cancer Trials</i> , at cancertrials.nci.nih.gov/news/angio/table.html (visited Sep. 25, 2001).
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INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		RECEIVED APR 29 2002 TECH CENTER 600/2900	

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C15 ✓	Benz, C. C. et al., "Estrogen-dependent, tamoxifen-resistant tumorigenic growth of MCF-7 cells transfected with HER2/neu," <i>Breast Cancer Res Treat.</i> 24(2):85-95 (1993). ✓ 16
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C17	Bolen, J.B., "Nonreceptor Tyrosine Protein Kinases," <i>Oncogene</i> , 8:2025-2031 (1993).
C18	Bolhuis, R.L. et al., "T cell targeting in cancer therapy," <i>Cancer Immunology Immunotherapy</i> , 34(1):1-8 (1991).
C19	Borg et al., "Biochemical Characterization of Two Isoforms of FLT4, a VEGF Receptor-Related Tyrosin Kinase," <i>Oncogene</i> , 10:973-984 (1995).
C20	Brown, L.F. et al., "Expression of Vascular Permeability Factor (Vascular Endothelial Growth Factor) and Its Receptors in Breast Cancer," <i>Human Pathology</i> , 26(1):86-91 (January, 1995).
C21	Brüggemann, M. et al., "Production of human antibody repertoires in transgenic mice," <i>Curr. Opin. Biotechnol.</i> , 8:455-458 (1997).
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C26	Cao, Y., <i>et al.</i> , "Vascular Endothelial Growth Factor C Induces Angiogenesis <i>in Vivo</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 95:14389-94 (November 1998).		
C27	Carter, P. <i>et al.</i> , "Toward the Production of Bispecific Antibody Fragments for Clinical Applications," <i>Journal of Hematology</i> , 4:463-470 (1995).		
C28	Catoretti <i>et al.</i> , "Monoclonal Antibodies Against Recombinant Parts of the Ki-67 Antigen (MIB 1 and MIB 3) Detect Proliferating Cells in Microwave-Processed Formalin-Fixed Paraffin Section," <i>J. of Pathol.</i> , 168:357-363 (1992).		
C29	Cheng & Flanagan, "Identification and Cloning of ELF-1, a Developmentally Expressed Ligand for the Mek4 and Sek Receptor Tyrosine Kinases," <i>Cell</i> , 79:157-168 (October 7, 1994).		
C30	Cole <i>et al.</i> , "The EBV-Hybridoma Technique and Its Application to Human Lung Cancer," <i>Monoclonal Antibodies and Cancer Therapy</i> , Alan R Liss, Inc., pp. 77-96 (1985).		
C31	Collins <i>et al.</i> , "Continuous Growth and Differentiation of Human Myeloid Leukaemic Cells in Suspension Culture," <i>Nature</i> , 270:347-349 (1977).		
C32	De Gast, G.C. <i>et al.</i> , "Clinical perspectives of bispecific antibodies in cancer," <i>Cancer Immunol Immunother</i> , 45:121-123 (1997).		
C33	De Vries <i>et al.</i> , "The fms-Like Tyrosine Kinase, a Receptor for Vascular Endothelial Growth Factor," <i>Science</i> , 255:989-991 (February 21, 1992).		
C34	De Waal, R. <i>et al.</i> , "Technical Advance: Lack of Lymphangiogenesis in Human Primary Cutaneous Melanoma," <i>American Journal of Pathology</i> , 150(6):1951-1957 (June, 1997).		
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Patent and Trademark OfficeAtty. Docket No.
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09/765,534Applicant
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C36	Dictor, M. et al., "Lymphaticovenous Differentiation in Kaposi's Sarcoma: Cellular Phenotypes by Stage," <i>American Journal of Pathology</i> , 130(2):411-417 (February, 1988).
C37	Dignam et al., "Balbiani Ring 3 in Chironomus Tentans Encodes a 185-kDa Secretory Protein Which Is Synthesized Throughout the Fourth Larval Instar," <i>Gene</i> , 88:133-40 (1990).
C38	Dumont, D. J. et al., "Cardiovascular Failure in Mouse Embryos Deficient in VEGF Receptor-3," <i>Science</i> , 282(5390):946-49 (1998).
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C44	Fanger, M.W. et al., "Bispecific Antibodies," <i>Critical Reviews in Immunology</i> , 12(3,4):101-124 (1992).
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C51	Folkman et al., "Long-term culture of capillary endothelial cells," <i>Proc. Nat'l Acad. Sci., USA</i> , 76(10):5217-5221 (October, 1979).
C52	Folpe, A.L., et al., "Vascular Endothelial Growth Factor Receptor-3 (VEGFR-3): A Marker of Vascular Tumors with Presumed Lymphatic Differentiation, Including Kaposi's Sarcoma, Kaposiform and Dabska-Type Hemangioendotheliomas, and a Subset of Angiosarcomas," <i>Mod. Pathol.</i> , 13(2):180-185 (2000).
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C61	Genbank Accession X51602 Human flt mRNA for receptor-related tyrosine kinase, deposited by Shibuya, M.		
C62	Genbank Accession X60280 plasmid pLTRpoly, deposited by Maekelae <i>et al.</i>		
C63	Genbank Accession X68203 H. sapiens mRNA for FLT4, Class III receptor tyrosine kinase, deposited by Aprelikova, O.		
C64	Genbank Accession X83287 C. coturnix Quek2 mRNA for vascular endothelial growth factor receptor, deposited by Eichmann, <i>et al.</i>		
C64	GenBank Accession No. AF014827, Rattus norvegicus vascular endothelial growth factor D (VEGF-D) mRNA, deposited by Yamada, Y.		
C65	GenBank Accession No. AJ000185, Homo Sapiens mRNA for vascular endothelial growth factor-D, deposited by Achen, M.G.		
C66	GenBank Accession No. CCY15837, Coturnix coturnix mRNA for vascular endothelial growth factor C, deposited by Eichmann, A.		
C67	GenBank Accession No. D89628, Mus musculus mRNA for vascular endothelial growth factor D, deposited by Yamada, Y.		

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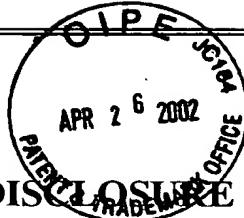
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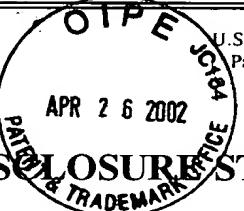
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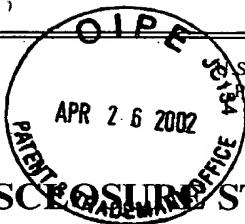
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